A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE November 17, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of October, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during the month of October. The land crew total decreased by five to 109, and the marine crew decreased by three for a net decrease of eight crews to a total of 130.

The October total (130) represents a decrease of 6% from last month, a 24% decrease from October, 1988, a 33% decrease from October, 1987, an 18% decrease from October, 1986, a 64% decrease from October, 1985, **a 74% decrease from October, 1984, and a decrease of 74% from the same month in 1983.**

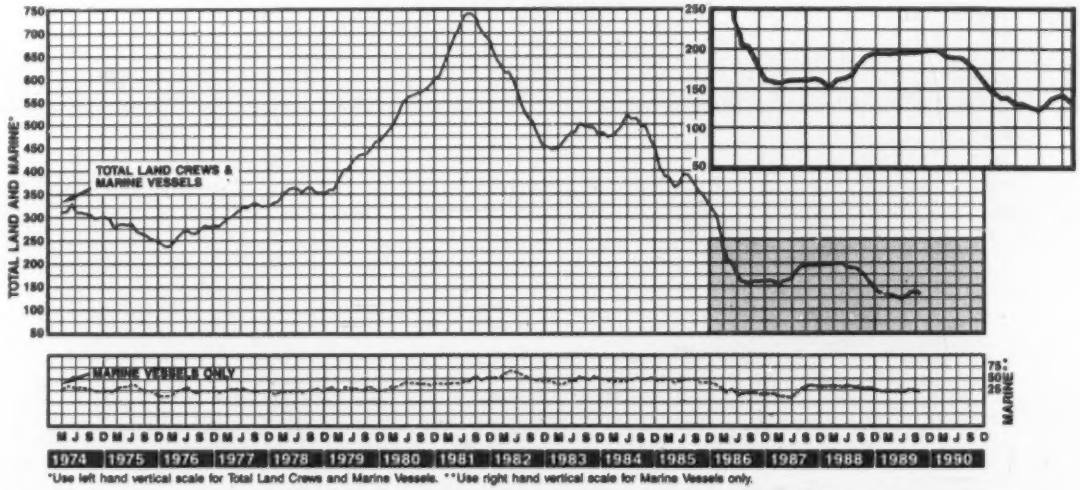
During October, three contractors were operating three of the 100 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Oct.'88	Oct.'87	Oct.'86	Oct.'85	Oct.'84	Oct.'83
	130	138	172	195	158	357	497	498

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983	This Mo.	Last Mo.	Oct. 1988	Oct. 1987	Oct. 1986	Oct. 1985	Oct. 1984	Oct. 1983
36 Contr's:	100	104	128	148	119	279	412	410	18	21	27	29	18	38	42	42
5 Oil Co's:	9	10	14	15	17	33	37	38	3	3	3	3	4	7	6	7
1 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
TOTALS	109	114	142	163	136	312	449	448	21	24	30	32	22	45	48	50

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

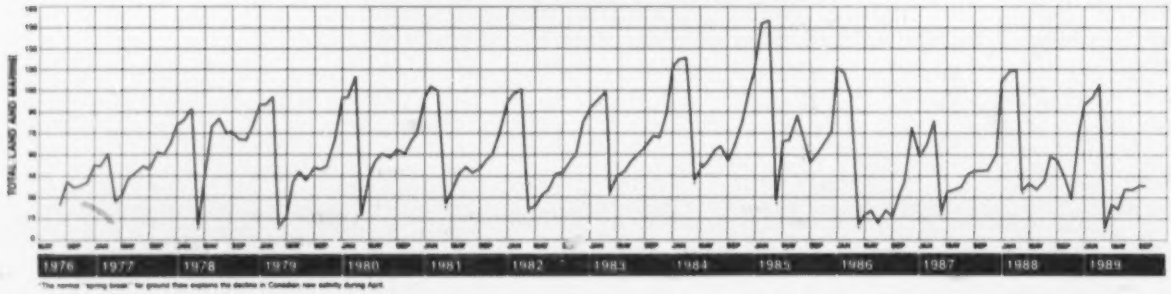
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

October, 1989 (September figures in parentheses)

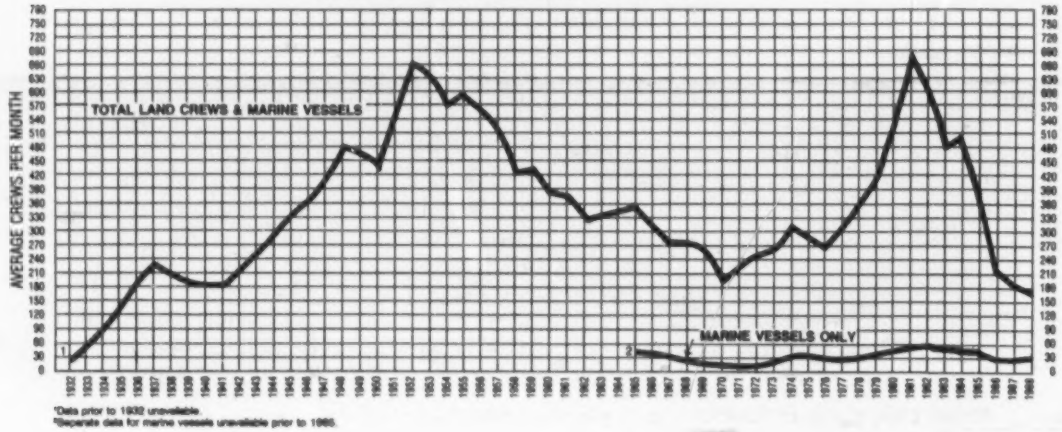
	Land Crews	Marine Crews
23 Contractors:	36 (34)	0 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	37 (35)	0 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable.
*Separate data for marine vessels unavailable prior to 1960.

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE December 17, 1989

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of November, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased for the second consecutive month during November. The land crew total remained the same at 109, and the marine crew decreased by one for a net decrease of one crew to a total of 129.

The November total (129) represents a decrease of 1% from last month, a 17% decrease from November, 1988, a 35% decrease from November, 1987, an 18% decrease from November, 1986, a 63% decrease from November, 1985, **a 74% decrease from November, 1984, and a decrease of 74% from the same month in 1983.**

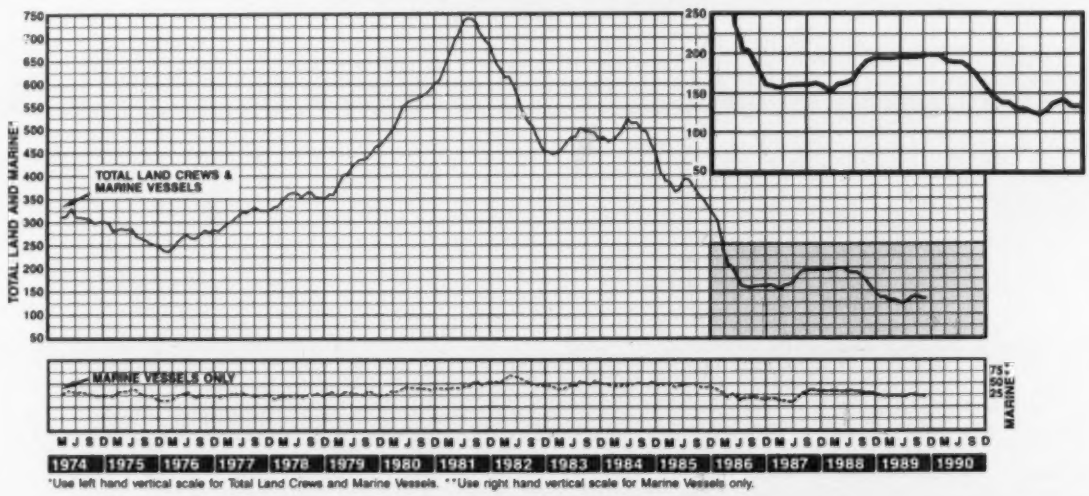
During November, three contractors were operating three of the 99 land crews and none of the seventeen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Nov.'88	Nov.'87	Nov.'86	Nov.'85	Nov.'84	Nov.'83
	129	130	155	198	158	346	493	495

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983	This Mo.	Last Mo.	Nov. 1988	Nov. 1987	Nov. 1986	Nov. 1985	Nov. 1984	Nov. 1983
37 Contr's:	99	100	114	155	121	273	407	408	17	18	25	25	15	35	42	42
6 Oil Co's:	10	9	13	15	18	32	37	38	3	3	3	3	4	6	7	7
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	109	109	127	170	139	305	444	446	20	21	28	28	19	41	49	49

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
MARINE**
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

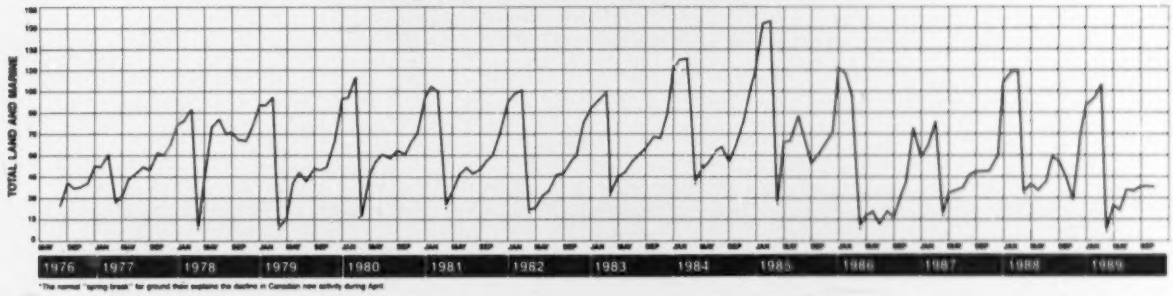
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

November, 1989 (October figures in parentheses)

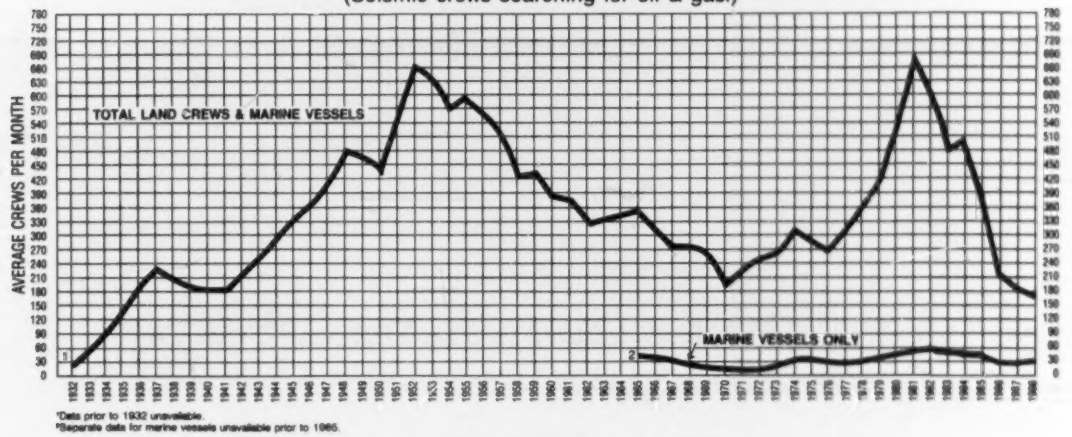
	Land Crews	Marine Crews
25 Contractors:	39 (36)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	40 (37)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1]Data prior to 1932 unavailable.
[2]Separate data for marine vessels unavailable prior to 1985.

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

January 10, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of December, 1989)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during December. The land crew total increased by three to 112, and the marine crew remained the same at twenty for a total of 132 crews and vessels.

The December total (132) represents an increase of 2% over last month, a 6% decrease from December, 1988, a 34% decrease from December, 1987, an 16% decrease from December, 1986, a 60% decrease from December, 1985, a 72% decrease from December, 1984, and **a decrease of 73% from the same month in 1983.**

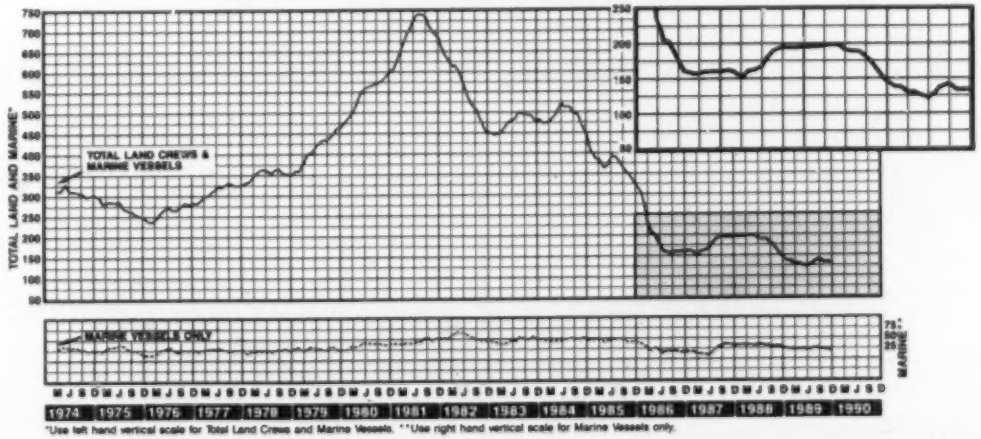
During December, three contractors were operating three of the 102 land crews and none of the seventeen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Dec.'88	Dec.'87	Dec.'86	Dec.'85	Dec.'84	Dec.'83
	132	129	141	199	157	326	466	493

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983	This Mo.	Last Mo.	Dec. 1988	Dec. 1987	Dec. 1986	Dec. 1985	Dec. 1984	Dec. 1983
37 Contr's:	102	99	100	157	121	255	378	408	17	17	24	24	15	33	44	41
6 Oil Co's:	10	10	14	15	18	32	36	37	3	3	3	3	3	6	8	7
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	112	109	114	172	139	287	414	445	20	20	27	27	18	39	52	48

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

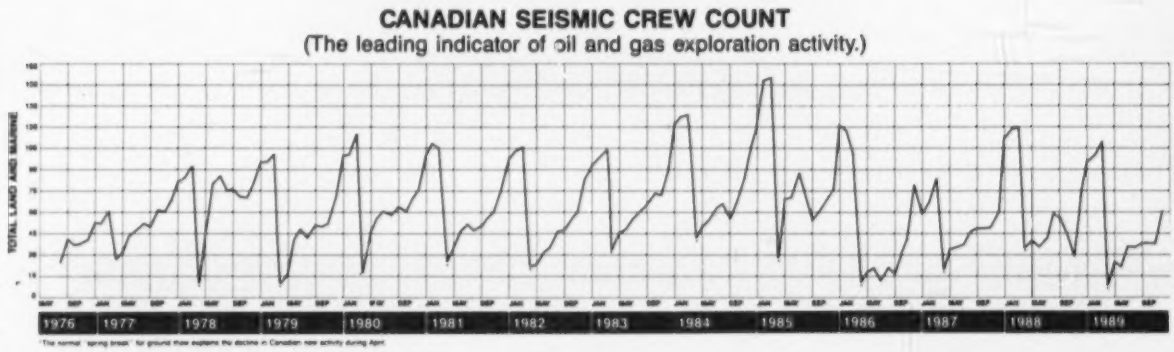
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

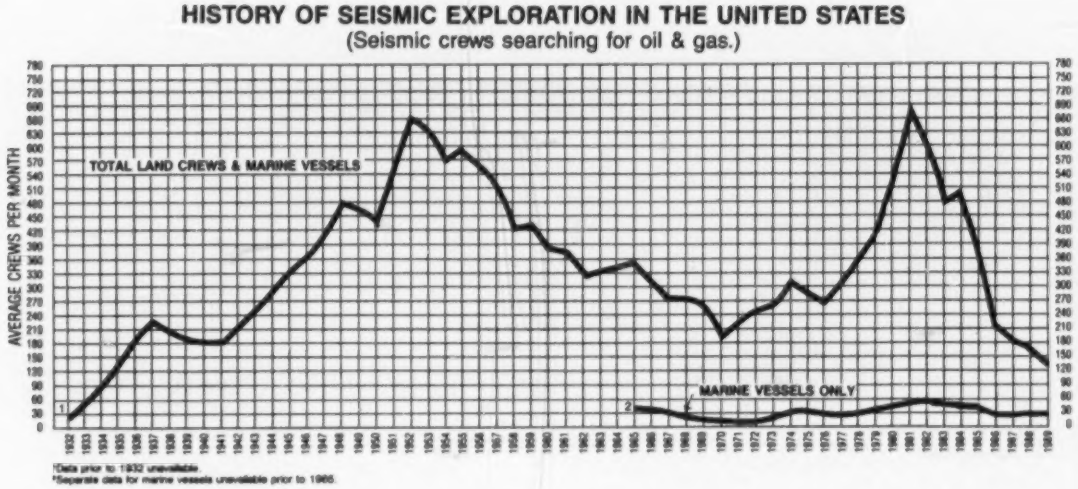
CANADIAN SEISMIC CREW COUNT

December, 1989 (November figures in parentheses)

	Land Crews	Marine Crews
27 Contractors:	61 (39)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	62 (40)	0 (0)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.


HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)
AVERAGE CREWS PER MONTH
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
1
2

A3712 -1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

February 9, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of January, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during January. The land crew total decreased by nine to 103, and the marine crew remained the same at twenty for a total of 123 crews and vessels.

The January total (123) represents a decrease of 7% from last month, an 11% decrease from January, 1989, a 60% decrease from January, 1988, an 30% decrease from January, 1987, a 152% decrease from January, 1986, a 256% decrease from January, 1985, and **a decrease of 288% from the same month in 1984.**

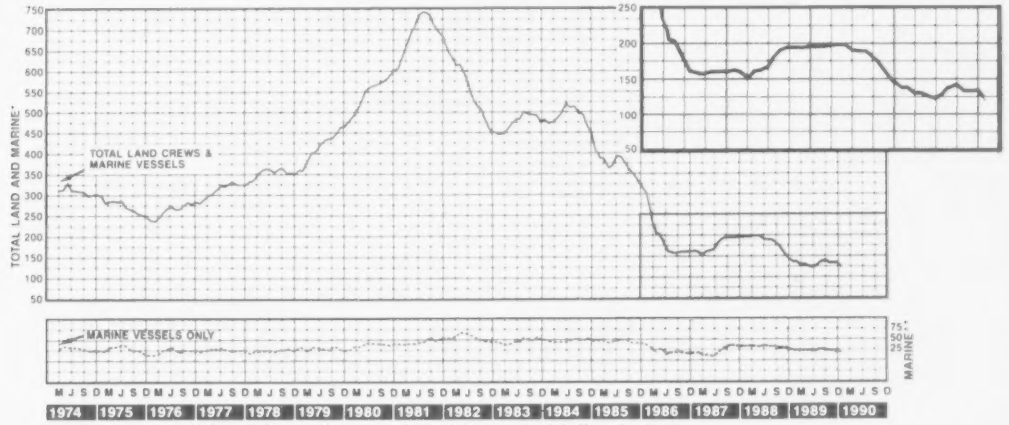
During January, two contractors were operating two of the 94 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Jan.'89	Jan.'88	Jan.'87	Jan.'86	Jan.'85	Jan.'84
	123	132	137	197	160	310	439	477

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Jan. 1989	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984	This Mo.	Last Mo.	Jan. 1989	Jan. 1988	Jan. 1987	Jan. 1986	Jan. 1985	Jan. 1984
35 Contr's:	94	102	99	152	126	240	358	390	18	17	22	26	15	34	39	42
5 Oil Co's:	9	10	13	15	16	31	35	37	2	3	3	4	3	5	7	8
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	103	112	112	167	142	271	393	427	20	20	25	30	18	39	46	50

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels **Use right hand vertical scale for Marine Vessels only

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

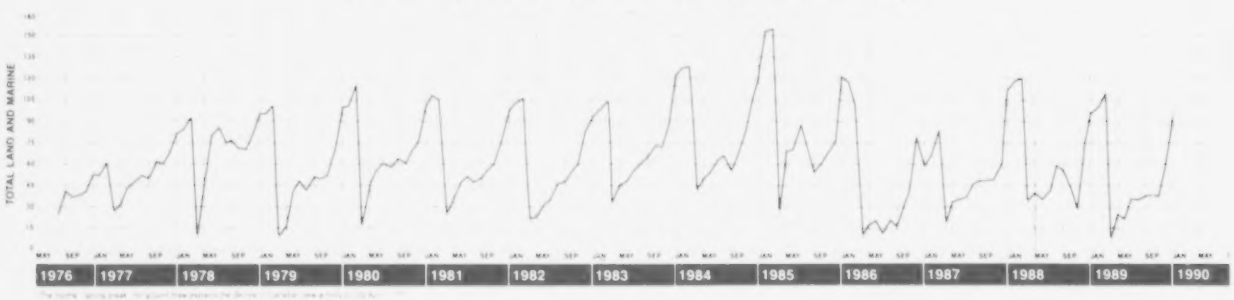
SEG SEISMIC CREW COUNT
Page 2

CANADIAN SEISMIC CREW COUNT

January, 1990 (December figures in parentheses)

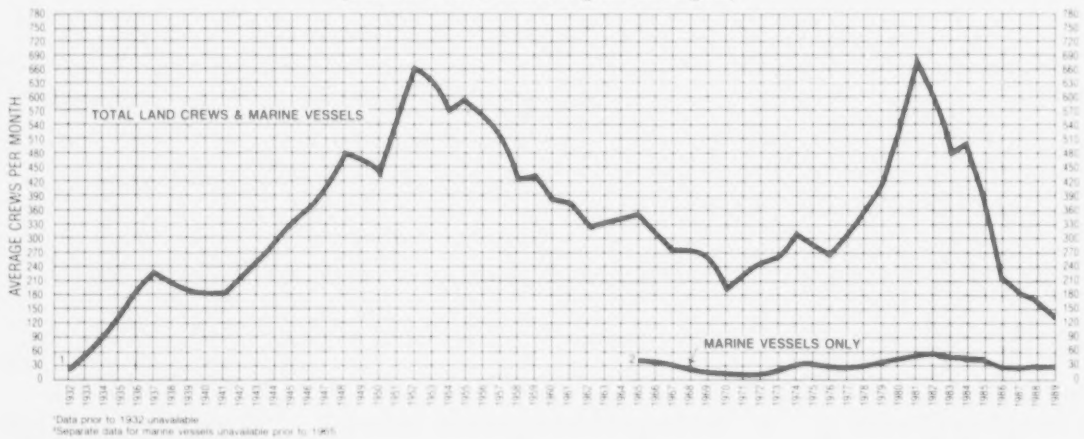
	Land Crews	Marine Crews
29 Contractors:	92 (61)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	93 (62)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



CEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



*Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1965

A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE March 9, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of February, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased for the second consecutive month during February. The land crew total decreased by three to 100, and the marine crew remained the same at twenty for a total of 120 crews and vessels. **This total establishes a new low number of crews and vessels working in the United States since SEG instigated its monthly survey in May of 1974.**

The February total (120) represents a decrease of 3% from last month, an 15% decrease from February, 1989, a 65% decrease from February, 1988, an 26% decrease from February, 1987, a 146% decrease from February, 1986, a 238% decrease from February, 1985, and **a decrease of 305% from the same month in 1984.**

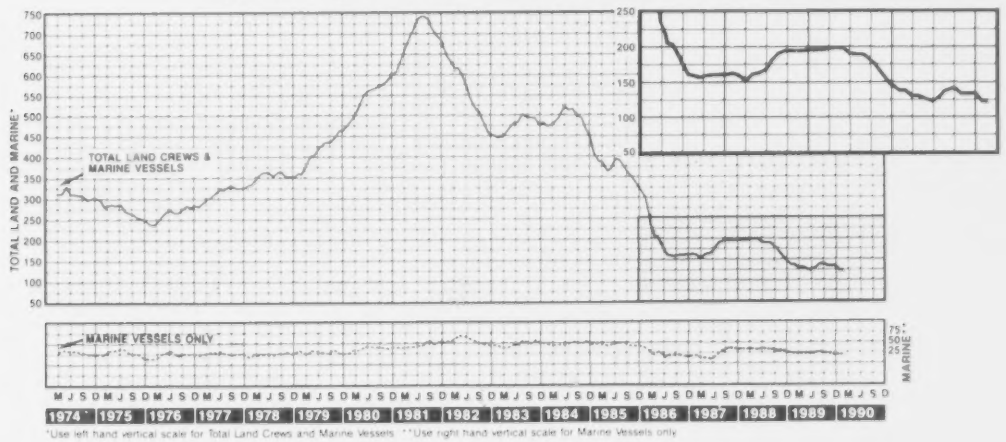
During February, one contractor was operating one of the 91 land crews and none of the eighteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Feb.'89	Feb.'88	Feb.'87	Feb.'86	Feb.'85	Feb.'84
	120	123	138	198	151	295	406	486

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Feb. 1989	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984	This Mo.	Last Mo.	Feb. 1989	Feb. 1988	Feb. 1987	Feb. 1986	Feb. 1985	Feb. 1984
36 Contr's:	91	94	102	155	119	226	326	396	18	18	20	26	16	34	38	45
5 Oil Co's:	9	9	13	13	13	30	34	37	2	2	3	4	3	5	7	8
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS	100	103	115	168	132	256	360	433	20	20	23	30	19	39	46	53

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

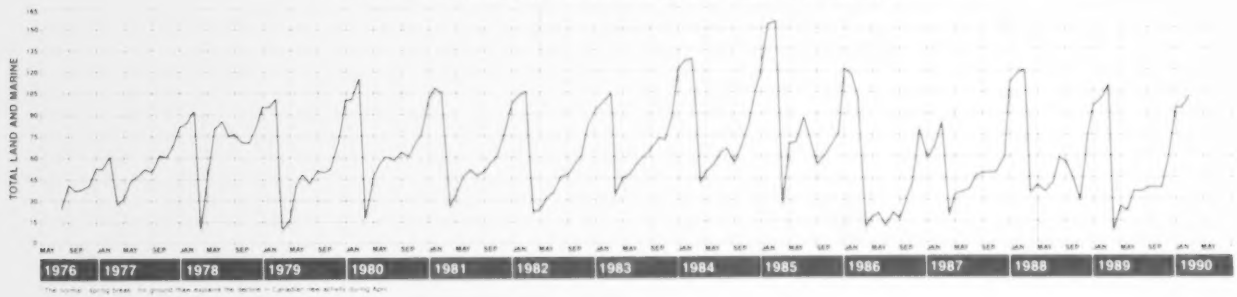
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

February, 1990 (January figures in parentheses)

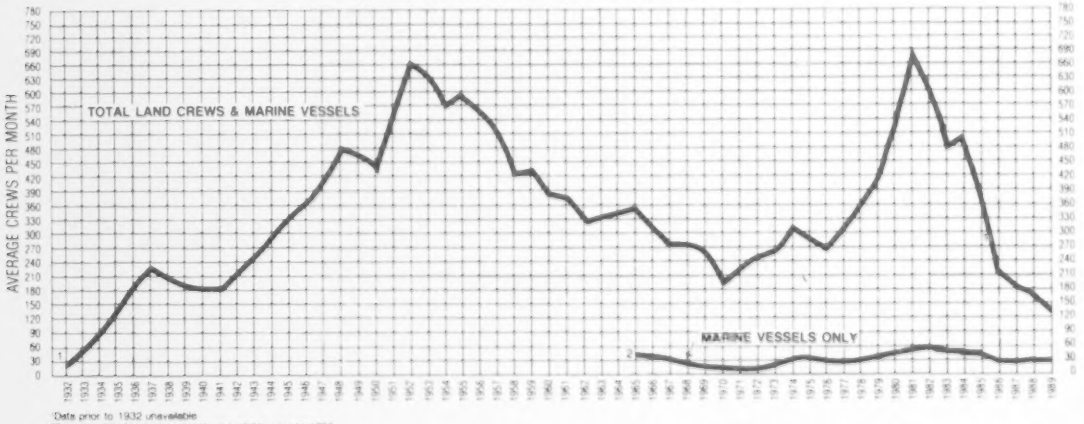
	Land Crews	Marine Crews
29 Contractors:	102 (92)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	103 (93)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



†Data prior to 1932 unavailable
*Separate data for marine vessels unavailable prior to 1955

A8912-1

SEG newsrelease
Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

April 11, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of March, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during March in spite of reports from several contractors that crews were idled because of unusually heavy rain in the central U.S.. The land crew total increased by seven to 107, and the marine crew increased by one for a total of 128 crews and vessels.

The March total (128) represents an increase of 6% over last month, a 1% decrease from March, 1989, a 52% decrease from March, 1988, an 17% decrease from March, 1987, an 88 % decrease from March, 1986, a 203% decrease from March, 1985, and **a decrease of 268% from the same month in 1984.**

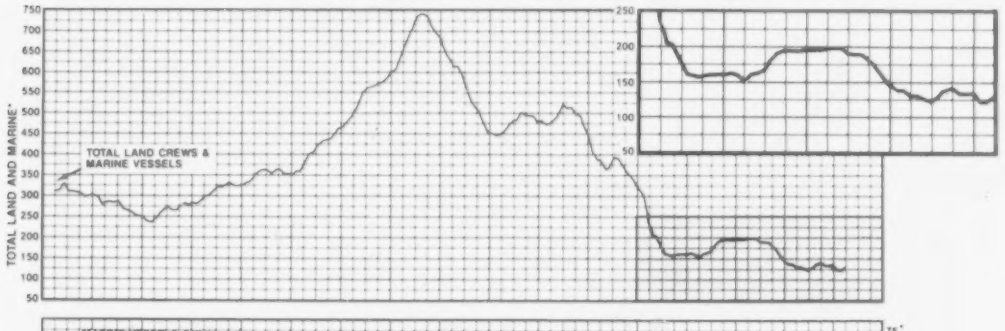
During March, two contractors were operating two of the 98 land crews and none of the nineteen marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Mar.'89	Mar.'88	Mar.'87	Mar.'86	Mar.'85	Mar.'84
	128	120	129	194	150	240	388	471

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Mar. 1989	Mar. 1988	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984	This Mo.	Last Mo.	Mar. 1989	Mar. 1988	Mar. 1987	Mar. 1986	Mar. 1985	Mar. 1984
34 Contr's:	98	91	99	150	118	185	306	386	19	18	18	25	15	23	40	39
5 Oil Co's:	9	9	9	15	14	27	34	38	2	2	3	4	3	5	7	8
0 Gov't:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
TOTALS	107	100	108	165	132	212	340	424	21	20	21	29	18	28	48	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY**
MARINE
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

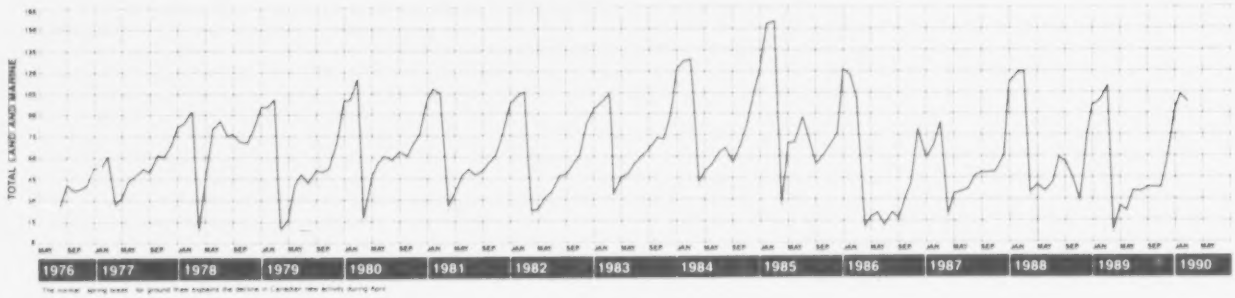
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

March, 1990 (February figures in parentheses)

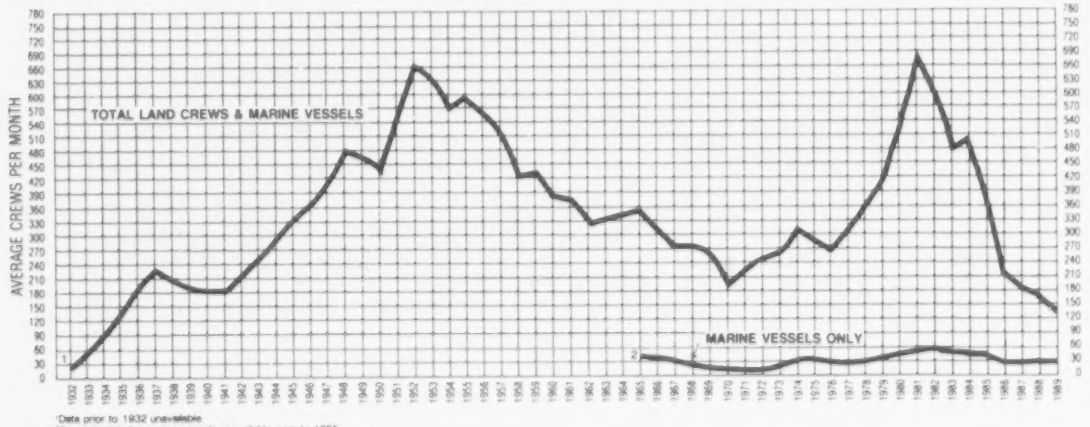
	Land Crews	Marine Crews
30 Contractors:	97 (102)	0 (0)
1 Oil Company:	1 (1)	0 (0)
Totals:	98 (103)	0 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



¹Data prior to 1932 unavailable.
²Separate data for marine vessels unavailable prior to 1965.

A9912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE May 11, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of April, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during April. There were repeated reports from several contractors that crews were idled because of unusually heavy rain for the second consecutive month in the central U.S.. The land crew total decreased by six to 101, and the marine crew increased by three for a total of 125 crews and vessels.

The April total (125) represents a decrease of 2% from last month, a 5% decrease from April, 1989, a 57% decrease from April, 1988, an 31% decrease from April, 1987, a 64% decrease from April, 1986, a 206% decrease from April, 1985, and **a decrease of 278% from the same month in 1984.**

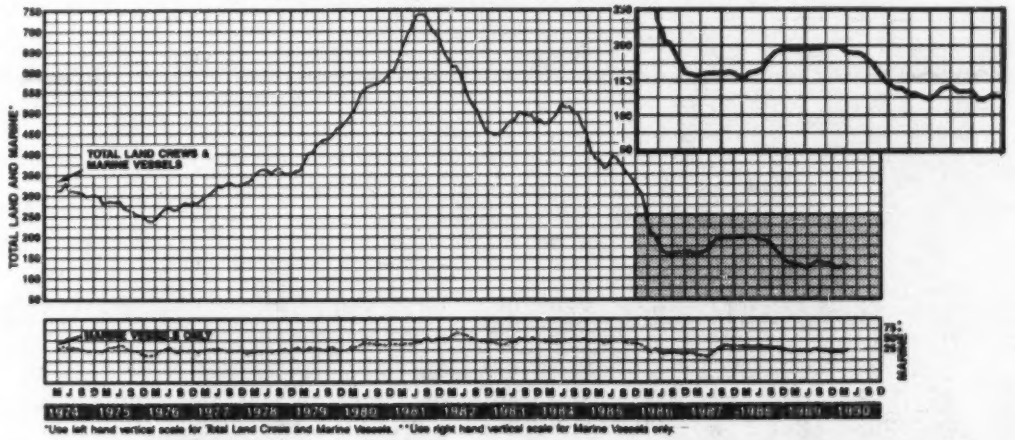
During April, two contractors were operating two of the 93 land crews and none of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Apr.'89	Apr.'88	Apr.'87	Apr.'86	Apr.'85	Apr.'84
	125	128	131	196	164	205	383	473

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Apr. 1989	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984	This Mo.	Last Mo.	Apr. 1989	Apr. 1988	Apr. 1987	Apr. 1986	Apr. 1985	Apr. 1984
33 Contr's:	93	98	99	152	131	159	304	385	21	19	19	24	16	15	39	42
4 Oil Co's:	8	9	10	15	14	26	32	38	2	2	3	4	3	5	7	8
1 Gov't:	0	0	0	0	0	0	0	0	1	0	0	1	0	0	1	0
TOTALS	101	107	109	167	145	185	336	423	24	21	22	29	19	20	47	50

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
TOTAL LAND AND MARINE*
MARINE**
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989
*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

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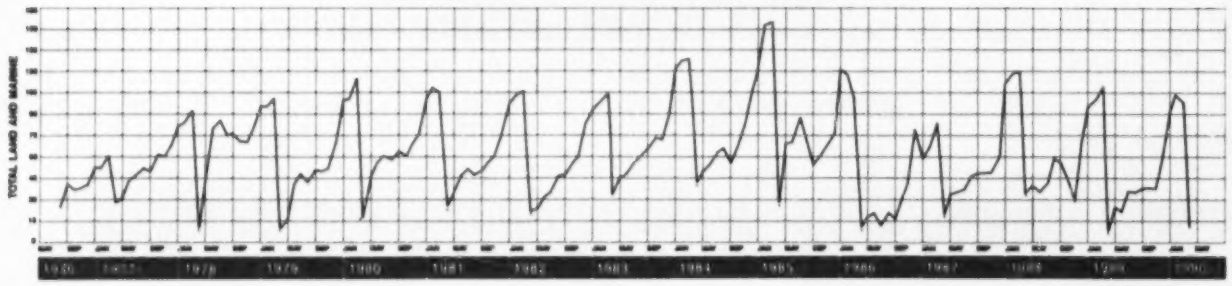
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

April, 1990 (March figures in parentheses)

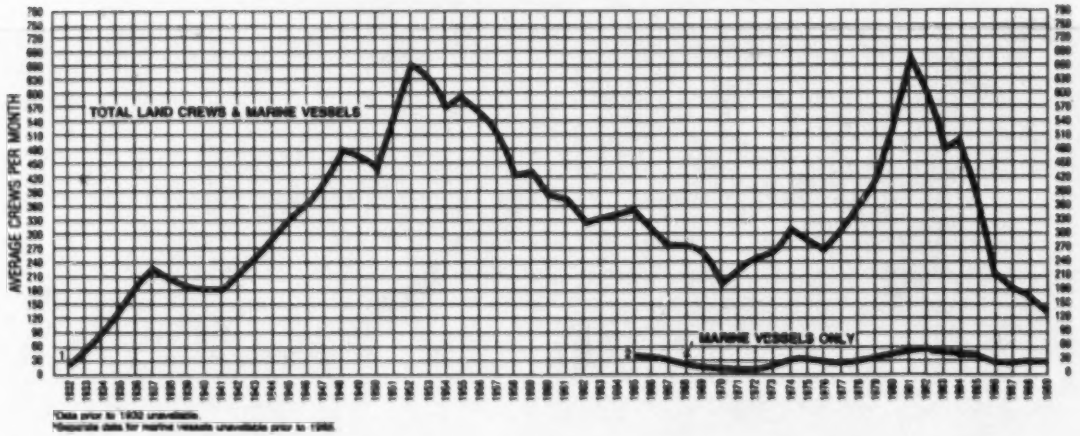
	Land Crews	Marine Crews
11 Contractors:	10 (97)	1 (0)
0 Oil Companies:	0 (1)	0 (0)
Totals:	10 (98)	1 (0)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE June 11, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of May, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during May. The land crew total increased by three to 104, and the marine crew increased by one for a total of 129 crews and vessels.

The May total (129) represents an increase of 3% over last month, a 2% increase over May, 1989, a 34% decrease from May, 1988, an 22% decrease from May, 1987, a 32% decrease from May, 1986, a 65% decrease from May, 1985, and **a decrease of 74% from the same month in 1984. Note: The above percentages of increase/decrease were inadvertently miscalculated for the months of January - April, 1990. If you would like to update your records with the correct percentages, please contact SEG at 918-493-3516.**

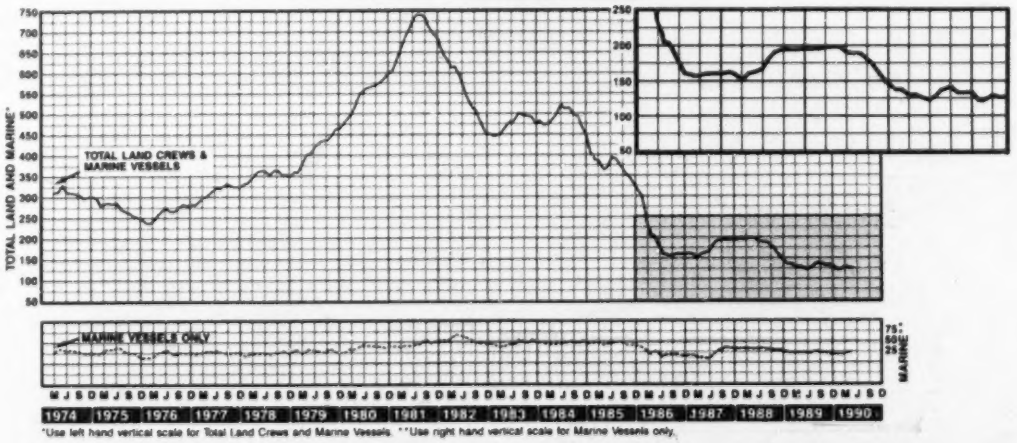
During May, two contractors were operating two of the 96 land crews and none of the twenty-two marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	May '89	May '88	May '87	May '86	May '85	May '84
	129	125	126	194	166	191	364	490

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	May 1989	May 1988	May 1987	May 1986	May 1985	May 1984	This Mo.	Last Mo.	May 1989	May 1988	May 1987	May 1986	May 1985	May 1984
34 Contr's:	96	93	95	149	131	148	293	406	22	21	19	25	17	14	35	38
5 Oil Co's:	8	8	9	15	15	24	30	38	2	2	3	4	3	5	5	8
1 Gov't:	0	0	0	0	0	0	0	0	1	1	0	1	0	0	1	0
TOTALS	104	101	104	164	146	172	323	444	25	24	22	30	20	19	41	46

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)



*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

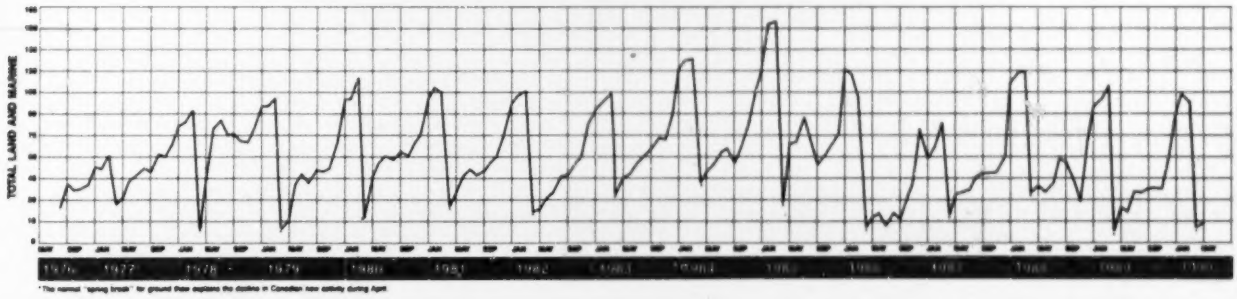
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

May, 1990 (April figures in parentheses)

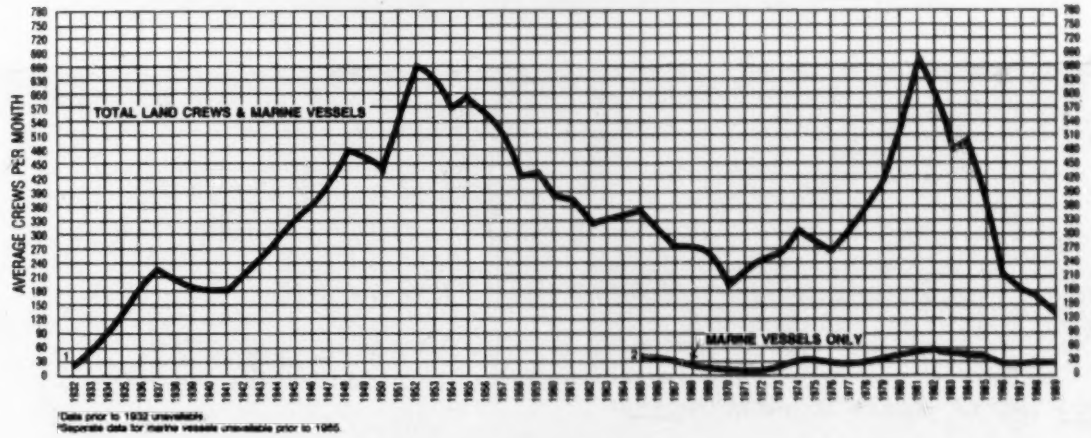
	Land Crews	Marine Crews
20 Contractors:	27 (10)	1 (1)
1 Oil Company:	1 (0)	0 (0)
Totals:	28 (10)	1 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



AP912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE July 10, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of June, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during June. The land crew total decreased by four to 100, and the marine crew total decreased by two for a total of 123 crews and vessels.

The June total (123) represents a decrease of 5% from last month, a 1% decrease from June, 1989, a 35% decrease from June, 1988, a 27% decrease from June, 1987, a 32% decrease from June, 1986, a 67% decrease from June, 1985, and **a decrease of 75% from the same month in 1984.**

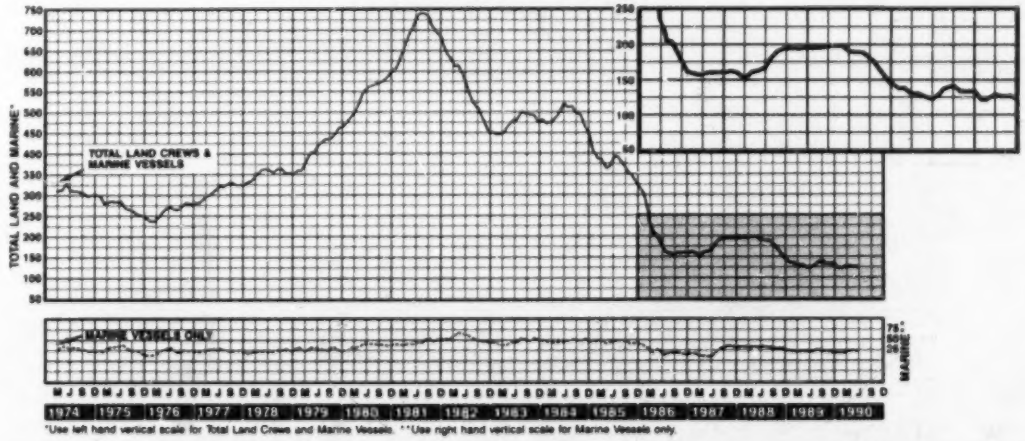
During June, four contractors were operating five of the 93 land crews and two of the twenty marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	June'89	June'88	June'87	June'86	June'85	June'84
	123	129	124	188	169	180	371	500

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	June 1989	June 1988	June 1987	June 1986	June 1985	June 1984	This Mo.	Last Mo.	June 1989	June 1988	June 1987	June 1986	June 1985	June 1984
35 Contr's:	93	96	92	143	133	140	294	418	20	22	18	25	19	14	40	38
4 Oil Co's:	7	8	10	15	14	22	30	37	2	2	3	4	3	4	6	7
1 Gov't:	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	0
TOTALS	100	104	102	158	147	162	324	455	23	25	22	30	22	18	47	45

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND AND MARINE*
TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

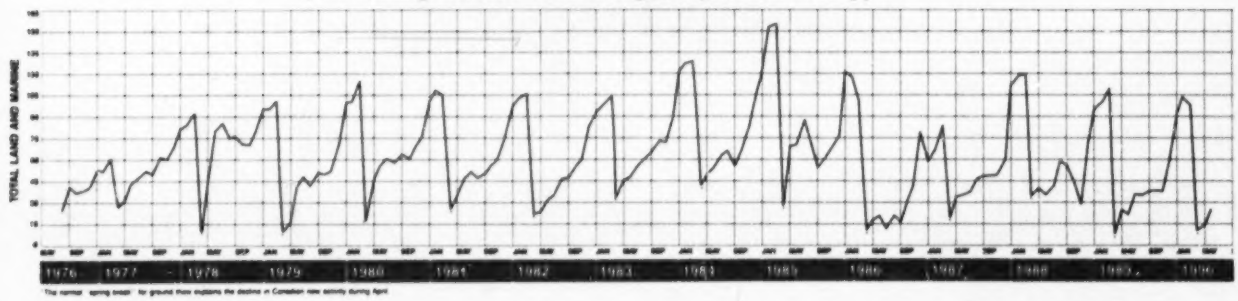
*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

CANADIAN SEISMIC CREW COUNT

June, 1990 (May figures in parentheses)

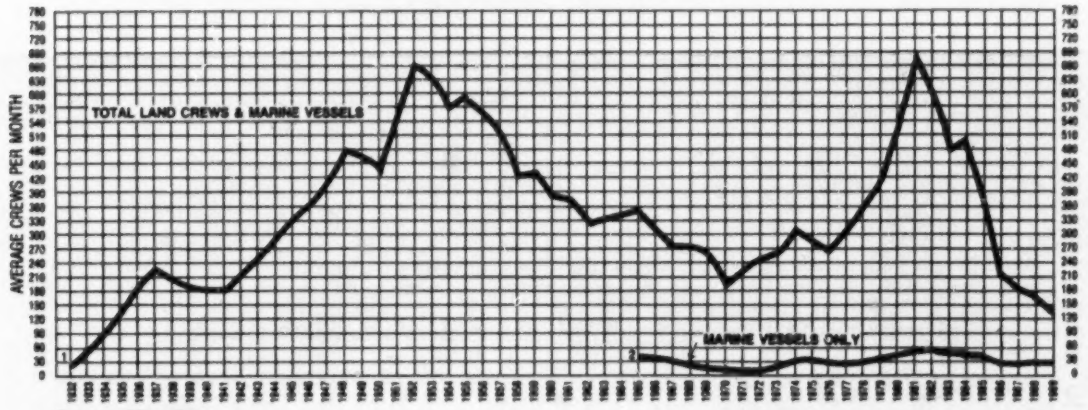
	Land Crews	Marine Crews
17 Contractors:	22 (27)	2 (1)
1 Oil Company:	1 (1)	0 (0)
Totals:	23 (28)	2 (1)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



[1] Data prior to 1932 unavailable.
[2] Separate data for marine vessels unavailable prior to 1965.

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE August 10, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of July, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during July. The land crew total increased by five to 105, and the marine crew total increased by one for a total of 129 crews and vessels.

The July total (129) represents an increase of 5% over last month, it is the same as July, 1989, a 31% decrease from July, 1988, a 30% decrease from July, 1987, an 18% decrease from July, 1986, a 68% decrease from July, 1985, and **a decrease of 76% from the same month in 1984.**

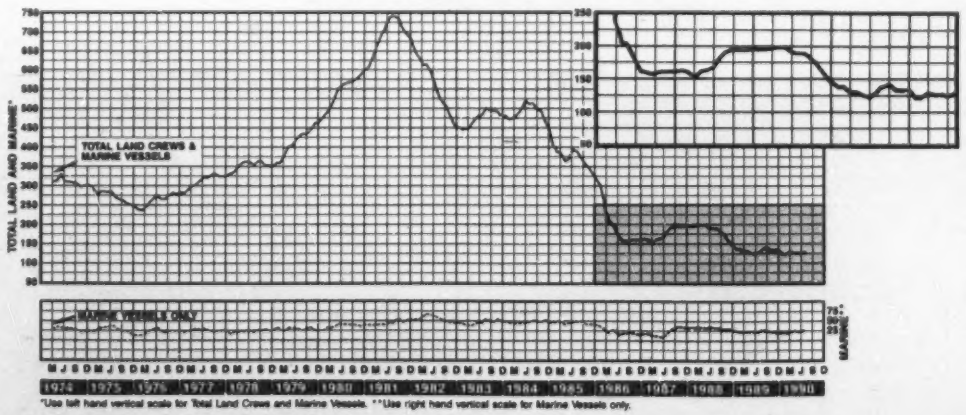
During July, three contractors were operating three of the 97 land crews and none of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	July '89	July '88	July '87	July '86	July '85	July '84
	129	123	129	186	183	158	397	529

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	July 1989	July 1988	July 1987	July 1986	July 1985	July 1984	This Mo.	Last Mo.	July 1989	July 1988	July 1987	July 1986	July 1985	July 1984
36 Contr's:	97	93	98	143	145	121	317	445	21	20	18	23	21	17	41	39
5 Oil Co's:	8	7	9	15	14	17	33	37	2	2	3	4	3	3	6	7
1 Gov't:	0	0	0	0	0	0	0	0	1	1	1	1	0	0	0	1
TOTALS	105	100	107	158	159	138	350	482	24	23	22	28	24	20	47	47

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND CREWS & MARINE VESSELS
TOTAL LAND AND MARINE*
MARINE VESSELS ONLY
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

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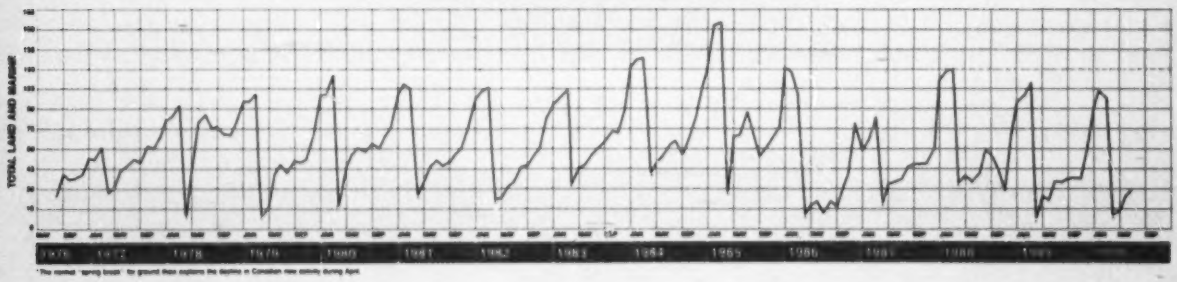
CANADIAN SEISMIC CREW COUNT

July, 1990 (June figures in parentheses)

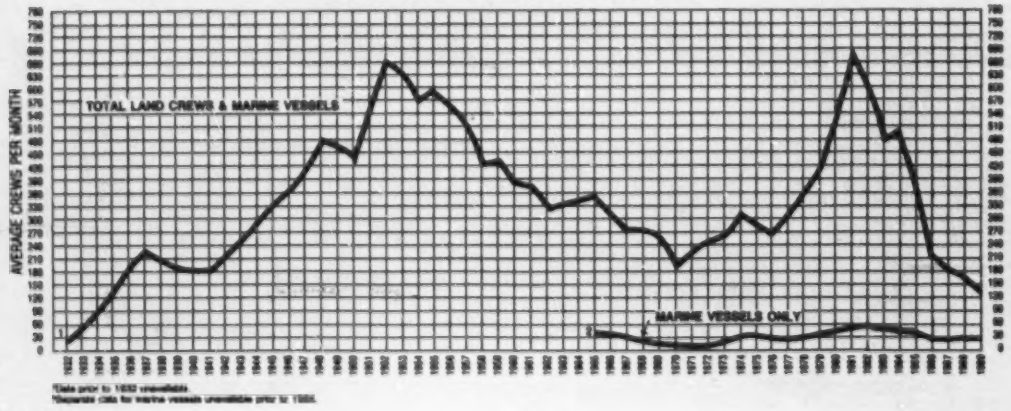
	Land Crews	Marine Crews
19 Contractors:	25 (22)	3 (2)
1 Oil Company:	1 (1)	0 (0)
Totals:	26 (23)	3 (2)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



A8912-1

SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

September 12, 1990

Contact: David L. Yowell or Sally Shank (918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of August, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters decreased during August. The land crew total decreased by three to 102, and the marine crew total decreased by one for a total of 125 crews and vessels.

The August total (125) represents a decrease of 3% from last month, a 9% decrease from August, 1989, a 31% decrease from August, 1988, a 35% decrease from August, 1987, a 19% decrease from August, 1986, a 66% decrease from August, 1985, and **a decrease of 76% from the same month in 1984.**

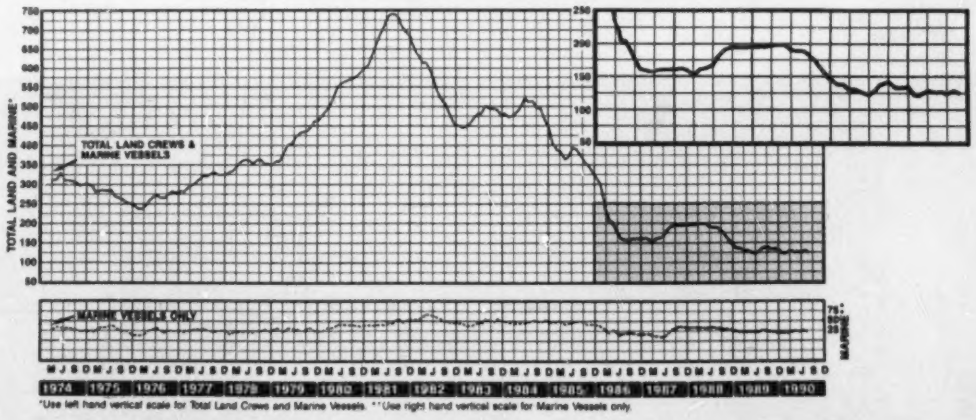
During August, six contractors were operating seven of the 94 land crews and two of the twenty-one marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Aug.'89	Aug.'88	Aug.'87	Aug.'86	Aug.'85	Aug.'84
	125	129	138	181	193	155	372	524

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Aug. 1989	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984	This Mo.	Last Mo.	Aug. 1989	Aug. 1988	Aug. 1987	Aug. 1986	Aug. 1985	Aug. 1984
35 Contr's:	94	97	104	136	151	114	290	435	21	21	21	25	26	20	43	44
5 Oil Co's:	8	8	10	15	13	17	33	37	2	2	3	4	3	4	6	7
1 Gov't:	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
TOTALS	102	105	114	151	164	131	323	472	23	24	24	30	29	24	49	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND CREWS & MARINE VESSELS
MARINE VESSELS ONLY
TOTAL LAND AND MARINE*
MARINE**
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1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990
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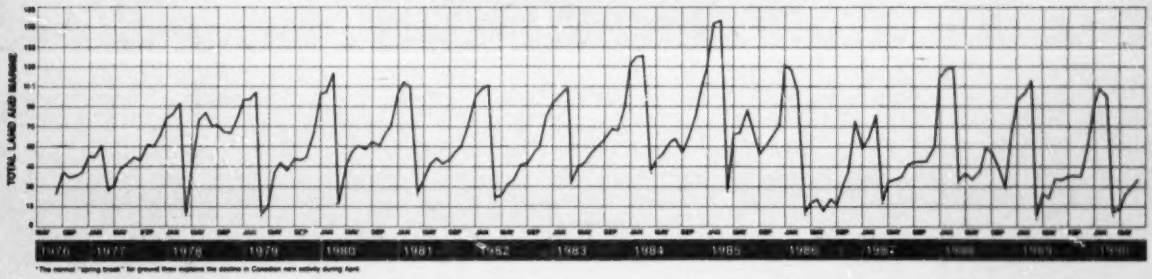
CANADIAN SEISMIC CREW COUNT

August, 1990 (July figures in parentheses)

	Land Crews	Marine Crews
23 Contractors:	33 (25)	3 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	34 (26)	3 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



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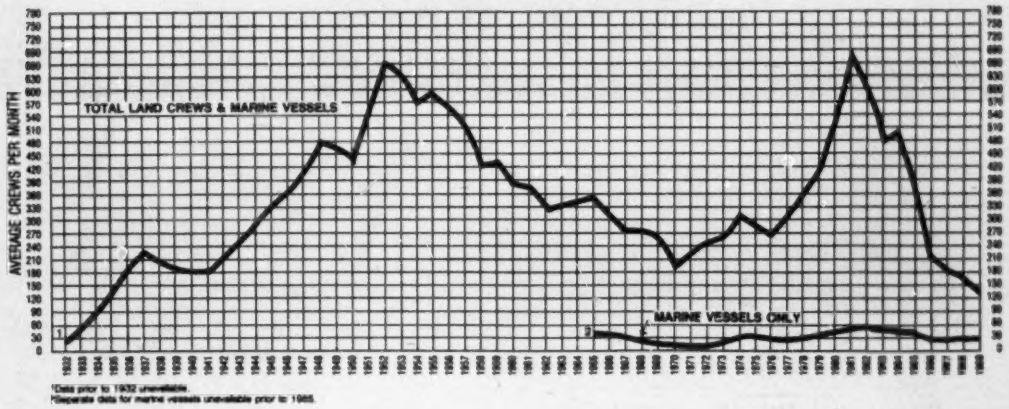
HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)



SEG news release

Society of Exploration Geophysicists

FOR IMMEDIATE RELEASE

October 10, 1990

Contact: David L. Yowell
or Sally Shank
(918) 493-3516

MONTHLY SEISMIC CREW COUNT

(Month of September, 1990)

According to the Society of Exploration Geophysicists' latest report, the number of seismic land crews and marine vessels searching for oil and gas in the U.S. and U.S. waters increased during September. The land crew total decreased by one to 101, and the marine crew total increased by two for a total of 126 crews and vessels, a net increase of one crew.

The September total (126) represents an increase of 1% over last month, a 9% decrease from September, 1989, a 30% decrease from September, 1988, a 35% decrease from September, 1987, a 19% decrease from September, 1986, a 66% decrease from September, 1985, and a **decrease of 76% from the same month in 1984.**

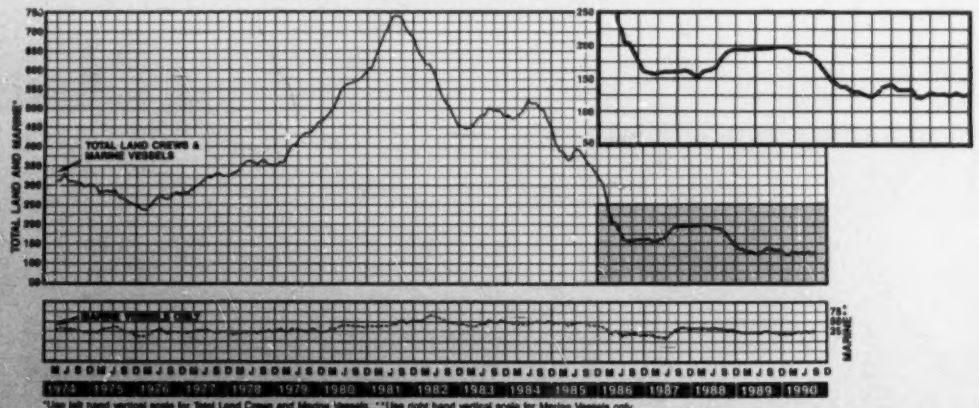
During September, five contractors were operating six of the 93 land crews and two of the twenty-three marine vessels on a speculative basis.

TOTAL LAND & MARINE CREWS:	This Month	Last Month	Sept'89	Sept'88	Sept'87	Sept'86	Sept'85	Sept'84
	126	125	138	181	193	155	372	524

	LAND CREWS								MARINE VESSELS							
	This Mo.	Last Mo.	Sept 1989	Sept 1988	Sept 1987	Sept 1986	Sept 1985	Sept 1984	This Mo.	Last Mo.	Sept 1989	Sept 1988	Sept 1987	Sept 1986	Sept 1985	Sept 1984
34 Contr's:	93	94	104	136	151	114	290	435	23	21	21	25	26	20	43	44
5 Oil Co's:	8	8	10	15	13	17	33	37	2	2	3	4	3	4	6	7
1 Gov't:	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	1
TOTALS	101	102	114	151	164	131	323	472	25	23	24	30	29	24	49	52

SEISMIC CREW COUNT

(The leading indicator of oil and gas exploration activity.)


TOTAL LAND CREWS & MARINE VESSELS
TOTAL LAND AND MARINE*
MARINE VESSELS ONLY
MARINE
M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D M J S D
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990

*Use left hand vertical scale for Total Land Crews and Marine Vessels. **Use right hand vertical scale for Marine Vessels only.

*Results of SEG's Seismic Crew Count of land and marine vessels engaged in exploration for oil and gas in the USA and USA waters, including Alaska, for the month indicated. These figures are compiled from data reported by oil companies operating company-owned seismic exploration crews and vessels and by contract seismic exploration companies. Special significance is attached to seismic crew activity since it is recognized as the leading indicator of all petroleum exploration activity.

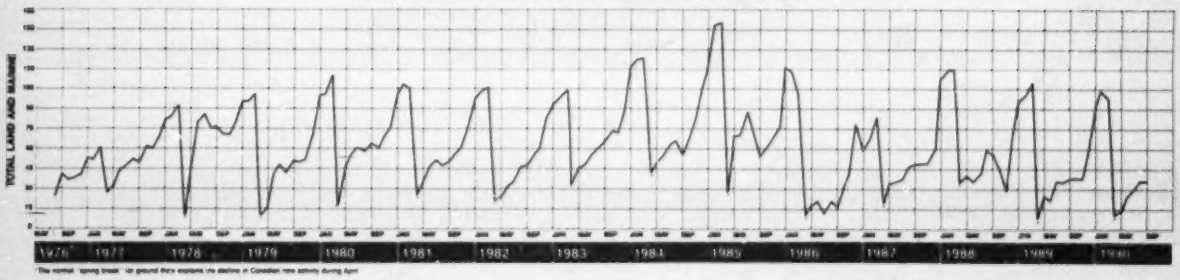
SEG Headquarters Office: Box 702740, Tulsa, Oklahoma 74170-2740, Tel. (918) 493-3516

CANADIAN SEISMIC CREW COUNT

September, 1990 (August figures in parentheses)

	Land Crews	Marine Crews
20 Contractors:	30 (33)	3 (3)
1 Oil Company:	1 (1)	0 (0)
Totals:	31 (34)	3 (3)

CANADIAN SEISMIC CREW COUNT
(The leading indicator of oil and gas exploration activity.)



SEG's monthly USA Seismic Crew survey was instigated in 1974 at the request of the United States' Federal Energy Administration. The report is currently submitted to the U.S. Department of Energy.

HISTORY OF SEISMIC EXPLORATION IN THE UNITED STATES
(Seismic crews searching for oil & gas.)